## BEFORE THE FEDERAL COMMUNICATIONS COMMISSION WASHINGTON, D.C.

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In the Matter of	)	THE SECRETARY
Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service	)	MM Docket No. 87-268
	)	

TO: The Commission

#### COMMENTS OF BRUNSON COMMUNICATIONS, INC.

Brunson Communications, Inc. ("Brunson"), by its counsel, submits these comments in response to the ex parte submission of the Association for Maximum Service Television, Inc. ("MSTV") dated November 20, 1997. Brunson is the operator of television broadcast station WGTW, Channel 48, Burlington, New Jersey.

The MSTV submission demonstrates that the DTV channel allotment scheme set forth in the Sixth Report and Order in this proceeding (FCC 97-115, released April 21, 1997) represents less than the optimum solution for the rollout of digital television service during the transition period. Based on new data, MSTV has shown that certain of the premises on which the original DTV plan were based are unsound. Of particular concern in this regard are the data reported in the MSTV

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submission with respect to adjacent channel interference. It is far preferable to remedy the defects in that allotment plan now rather than to wait to attempt a solution after broadcasters begin operation on the new channels, only to be flooded with interference complaints.

Since the transition to DTV will last a number of years, it is important to ensure that service to the public is only minimally impaired by interference during that time. The whole purpose of the shift to digital television broadcasting is to provide the public with a superior picture and superior sound. Therefore, it would be unwise to rush to implement an allotment scheme under which millions of people would find their DTV reception no better than the NTSC signals they currently receive. Just as significant would be the innumerable instances where existing NTSC signals would be degraded by interference from DTV transmissions.

Accordingly, concerns that the MSTV submission comes at a late stage of this proceeding should not cause the Commission to reject the improvements suggested by MSTV. The public interest will be served if the Commission accepts the constructive comments of MSTV in order to fashion a final DTV allotment table that will do justice to the substantive objective of this proceeding.

A fool has been defined as one who, when informed that he is headed in the wrong direction, redoubles his speed. For the Commission to set in concrete too

quickly the imperfect allotments made in the Sixth Report and Order would lead only to the crumbling of that concrete a few years hence under the weight of bad experience. In contrast, the Commission has chosen the more responsible path of accepting the MSTV submission and inviting public comment on it. It should take the further step of adopting the MSTV plan.

Brunson's own situation is illustrative of the merits of the MSTV proposal. Brunson initially took the data in the allotment table attached to the Sixth Report and Order at face value, and assumed that its proposed DTV allotment of Channel 27 would enable it to provide adequate digital service to substantially all of the viewers who currently receive the station's NTSC signal. At first glance, the channel allotment proposed for WGTW by MSTV -- Channel 46 -- did not appear to offer any improvement at all.

Nevertheless, when both proposals were subjected to more exacting engineering analysis, applying the same standards to each plan, it became apparent that the MSTV submission represents a substantial improvement over the level of service possible based on the use of DTV Channel 27.

Most significantly, as demonstrated by the attached technical exhibit, DTV operation on Channel 27 by WGTW would suffer severe interference from the co-channel NTSC operation of station WHTM-TV, Harrisburg, Pennsylvania. As set

forth in the technical exhibit attached hereto, the licensed NTSC operation of WHTM-TV is short-spaced to WGTW-TV's transmitter site by almost 70 km. Not only would the DTV operation of WGTW-TV be severely impaired in heavily populated areas, but numerous viewers of WHTM-TV would also lose existing service.

Further, the DTV transmitter of station KYW-TV, operating on Channel 26 (a first adjacent channel to the WGTW allotment) will be located in the same antenna farm from which WGTW broadcasts. The potential for harmful interference between first adjacent channel DTV operations that are too close together is too great to leave these proposed allotments in place.<sup>1</sup>

The MSTV submission suggested allotment of Channel 46 to WGTW. This would clearly be preferable. The potential for interference with the signal of WGTW would be very significantly lessened if WGTW were allotted Channel 46.

#### **CONCLUSION**

As noted above, if the Commission makes the DTV Table of Allotments in the form proposed in its Sixth Report and Order final, WGTW will suffer harmful

<sup>&</sup>lt;sup>1</sup>Advanced Television Technology Center testing cited in Comment On and Opposition to Petitions for Reconsideration of the Fifth and Sixth Reports and Orders Submitted by the Association for Maximum Service Television, Inc. And the Broadcasters Caucus, MM Docket No. 87-268 (July 18, 1997) at 29-30.

interference from co-channel WHTM-TV at Harrisburg, Pennsylvania, to which WGTW-TV is short-spaced by no less than 68.7 km. The threat of DTV to DTV interference from first adjacent channel KYW-TV is also a grave problem.

For the preceding reasons, Brunson urges the Commission to adopt the changes to the DTV Table of Allotments submitted by MSTV on November 20, 1997.

Respectfully submitted,

BRUNSON COMMUNICATIONS, INC.

Barry D. Wood

Paul H. Brown

WOOD & BRINTON, **CHARTERED** Suite 900A 2300 M Street, N.W. Washington, D.C. 20037

(202) 293-5333

Dated: December 17, 1997

TECHNICAL EXHIBIT
PREPARED ON BEHALF OF
TV STATION WGTW
BURLINGTON, NEW JERSEY
IN MM DOCKET NO. 87-268

This Technical Statement was prepared on behalf of television station WGTW at Burlington, New jersey to provide a comparison of the FCC's DTV allotment for WGTW contained in 6<sup>th</sup> Report and Order in MM Docket No. 87-268 (Docket No. 87-268) and the DTV allotment proposed by MSTV in a recently filed *ex parte* submission. As demonstrated below, the channel proposed by MSTV for WGTW(TV)'s DTV operation (46) is preferred from an interference standpoint.

Station WGTW currently operates on NTSC channel 48 at Burlington with a non-directional antenna ERP of 2340 kW and an antenna height above average terrain (HAAT) of 335 meters. In MM Docket No. 87-268, the FCC proposed channel 27 for WGTW's DTV allotment with an ERP of 50 kW and an HAAT 335 meters. The FCC indicated a 98.5% DTV/NTSC coverage match. MSTV has proposed channel 46 for WGTW(TV)'s DTV operation with an ERP of 60.7 kW and an HAAT of 339 meters. The MSTV indicated a 99.7% DTV/NTSC coverage match. The "minor" difference in FCC and MSTV HAAT values are due to the calculation method used.

Figure 1 is a map which depicts the Grade B contour for WGTW(TV)'s NTSC operation on channel 48 (solid line), the DTV noise-limited Grade B contour based on the FCC's proposed DTV operation on channel 27 (long-dashed line) and the noise-limited contour based on MSTV's proposed DTV operation on channel 46 (short-dashed line). As can be seen, the NTSC and MSTV contours are coextensive

\_\_A Subsidiary of A.D. Ring, P.A. Page 2

Burlington, New Jersey

and the FCC contour is located slightly outside the NTSC/MSTV contours.

Figure 2 is a separation study for the FCC's DTV channel 27 operation from the WGTW(TV) transmitter site. The study shows the separations applicable to other NTSC stations (DTV to NTSC) and to the DTV allotments (DTV to DTV0 adopted by the FCC in the 6th Report and Order. Although the DTV separations were adopted by the FCC for "new" DTV allotments, they can also be utilized to determine which stations have the greatest potential for interference. As shown, the most significant short-spacing to other NTSC stations is with co-channel WHTM-TV on channel 27 at Harrisburg, PA (see Sheet 1). The shortspacing is 68.7 km and this indicates a potential for mutual interference. There are no short-spacings indicated towards other DTV stations (see Sheet 3); however, the first adjacent channel 26 DTV allotment for KYW-TV (NTSC Ch. 3, Philadelphia) is going to be located in the same antenna farm. It has recently been determined that there is a potential for mutual interference between first adjacent DTV operations that are assigned too close together. This is based on laboratory testing which was unavailable until late this summer.

Figure 3 is a separation study for the MSTV's proposed DTV channel 46 operation from the WGTW(TV) transmitter site. The separation study is based on MSTV's proposed DTV table. The only NTSC short-spacings are towards are toward non-adjacent channel stations where the potential for interference is minimal. Furthermore, there is ample clearance towards any other DTV allotments.

Based on the above, it appears that the DTV allotment proposed by MSTV for WGTW (Channel 46) is preferable to the FCC's proposal (Channel 27) as there

## du Treil, Lundin & Rackley, Inc.

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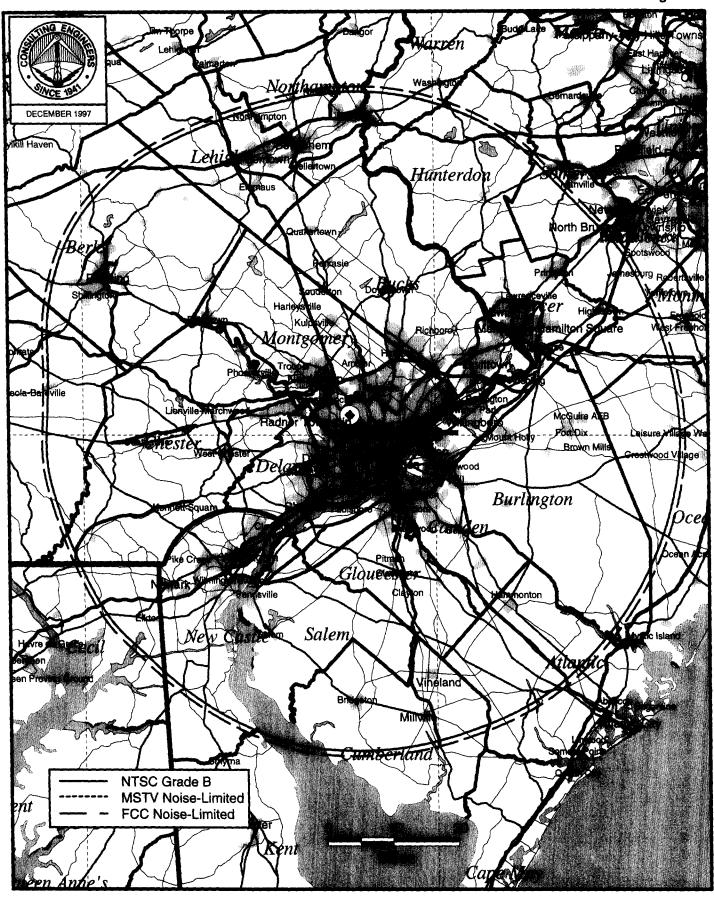
Burlington, New Jersey

would be less potential for interference caused and received and, furthermore, channel 46 is located within the true "core" band (channels 7-46).

W. Lathy byulds
W. Jeffrey Reynolds

du Treil, Lundin & Rackley, Inc. 240 North Washington Blvd. Suite 700 Sarasota, Florida 34236-5929

December 16, 1997



# **NOISE LIMITED / GRADE B CONTOURS**

WGTW(TV) BURLINGTON, NJ

du Treil, Lundin & Rackley, Inc., Sarasota, Florida

## DTV to NTSC Separation Study - FCC Allotment Table

Job Title :WGTW       Separation Buffer 32 km         Zone : 2       FCC TV DB Date : 12/05/97         Channel 27 (548-554 MHz)       Coordinates : 40-02-36 75-14-33							
Status	City Ch St FCC File No. Z	one	HAAT (m)	Longitude	True	(km)	(km)
LMRS LAND 1	PHILADELPHIA PA - MOBILE CHANNEL ONLY	19(0)	0	39-56-58 75-09-21	144.7	12.79	0.0 LMRS
LMRS PROPOS	NEW YORK NY - SED LAND MOBILE CHAN		0	73-59-39	52.9	131.99 0.00	0.0 LMRS
LMRS LAND I	PHILADELPHIA PA - MOBILE CHANNEL ONLY	20(0)	0	39-56-58 75-09-21	144.7	12.79 0.00	0.0 LMRS
WNJS LIC	CAMDEN * NJ BLET-860630KO	(23 (+) I	2340 271	39-43-41 74-50-39	135.8	48.86 <b>-24.76</b>	24.1/80.5 <b>SHORT</b>
WNYETV LIC	NEW YORK NY BLET-920220KG						
	PHILADELPHIA PA - SED LAND MOBILE CHAN				144.7	12.79	0.0 LMRS
LMRS PROPO	NEW YORK NY - SED LAND MOBILE CHAN				52.9	131.99	0.0 LMRS
	HARRISBURG PA BLCT-2267						
WHTMTV CP	HARRISBURG PA BPCT-950120KE		2140 DA 346	40-18-57 76-57-02	282.3	148.60 -68.70	
WTXF LIC	PHILADELPHIA PA BLCT-2289	29(o) I		40-02-26 75-14-20		0.45 23.65	24.1/80.5 CLEAR
LIC	NEW YORK NY BLCT-860703KH RCIAL CHANNEL OPERA	I	475	74-00-49		128.09 47.59	24.1/80.5 CLEAR

#### DTV to NTSC Separation Study - FCC Allotment Table

Zone : 2					CC TV	tion Buffe DB Date :	12/05/97
Channel	27 (548-554 MHz)			Coordina	ates :	40-02-36	75-14-33
Call	_			Latitude			Req.
Status	St FCC File No.	Zone	HAAT (m)	Longitude	True	(km)	(km)
	DOVER	*34(o)		39-09-28	193.8	101.24	24.1/80.5
ALLOC.	DE -	I	0	75-31-24		20.74	CLEAR
	NEW YORK	34(o)		40-45-06	52.9	131.99	0.0
LMRS	NA -			73-59-39		0.00	LMRS
PROPO	SED LAND MOBILE CHA	ANNEL, I	DOCKET 85	-172			
WYBE	PHILADELPHIA	*35(-)	1910 DA	40-02-26	135.2	0.45	24.1/80.5
LIC	PA BLET-900612KE	I I	284	75-14-20		23.65	CLEAR
VTXW	PATERSON	41 (-)	2340 DA	40-44-54	53.2	132.32	24.1/80.5
LIC	NJ BLCT-920218KE	E I	421	73-59-10		51.82	CLEAR
	PHILADELPHIA	42 (o)		39-56-58	144.7	12.79	0.0
LMRS	PA -		0	75-09-21		0.00	LMRS
PROPO	SED LAND MOBILE DOO	CKET D8	5-172.				

<sup>\*\*</sup> End of TV Separation Study for Channel 27 \*\*

#### DTV to DTV Separation Study - FCC Allotment Table

Job Title :WGTW Separation Buffer 32 km Zone : 2 FCC DTV DB Date: 05/09/97

Channel 27 (548-554 MHz) Coordinates: 40-02-36 75-14-33

Call	City		ERP(kW)	Latitude	Bear.	Dist.	Req.
Status	St FCC File No		HAAT(m)	Longitude	True	(km)	(km)
DKYWTV	PHILADELPHIA	26	1000.0	40-02-39	60.8	0.19	32.2/88.5
DTVALT	PA	I	305	75-14-26		32.01	CLEAR
DWGTW DTVALT	BURLINGTON NJ	27 I	50.00 335	40-02-36 75-14-33	0.0	0.00	
DWETATV DTVALT	WASHINGTON DC	27c I	64.30 233	38-57- <b>4</b> 9 77-06-18	233.7	200.08	196.3 CLOSE
DWTBY	POUGHKEEPSIE	27	112.50	41-43-09	28.9	213.69	196.3
DTVALT	NY	I	<b>4</b> 90	73-59-47		17.39	CLEAR

<sup>\*\*</sup> End of DTV Separation Study for Channel 27 \*\*

## DTV to NTSC Separation Study - MSTV Allotment Table

Call City Channel ERP(kW) Latitude Bear Dist. Req. Status St FCC File No. Zone HAAT(m) Longitude True (km) (km)  WPXMTV NEW YORK 31(-) 2820 DA 40-42-43 54.1 128.09 24.1/80.5 CLEAR COMMERCIAL CHANNEL OPERATING NONCOMMERCIALLY  PHILADELPHIA 32(o) 39-56-58 144.7 12.79 0.0 IMR: PA - 0 75-09-21 0.00 IMR: PROPOSED LAND MOBILE CHANNEL, DOCKET 85-172  WLVTTV ALLENTOWN *39(o) 575 40-33-58 344.4 60.32 24.1/80.5 SHORY LIC PA BLET-429 I 302 75-26-06 -20.18 SHORY PROPOSED LAND MOBILE DOCKET D85-172.  WPMT YORK 43(o) 2140 40-01-38 269.5 115.89 24.1/80.5 PA - 0 75-09-21 0.00 IMR: PROPOSED LAND MOBILE DOCKET D85-172.  WPMT YORK 43(o) 2140 40-01-38 269.5 115.89 24.1/80.5 LIC PA BLET-840905KI I 415 76-36-00 35.39 CLEAR PHILADELPHIA 46(o) 39-56-58 144.7 12.79 0.0 LIC PA BLET-830929KG I 509 75-52-17 56.69 CLEAR PHILADELPHIA 46(o) 39-56-58 144.7 12.79 0.0 LIC PA BLET-830929KG I 509 75-52-17 56.69 LIME PA - 0 75-09-21 56.69 LIME PA BLET-830915KJ I 375 75-56-39 13.89 CLEAR PHILADELPHIA 46(o) 39-56-58 144.7 12.79 0.0 LIMES PA - 0 75-09-21 56.69 LIME PA -	Job Titl Zone : 2 Channel					Coordin	_		Efer 32 km : 12/05/97 5 75-14-33
WPXNTV NEW YORK 31(-) 2820 DA 40-42-43 54.1 128.09 24.1/80.5 LIC NY BLCT-860703KH I 475 74-00-49 47.59  PHILADELPHIA 32(o) 39-56-58 144.7 12.79 0.0  LMRS PA - 0 75-09-21 0.00  LIC PA BLET-429 I 302 75-26-06 -20.18  FROPOSED LAND MOBILE CHANNEL, DOCKET 85-172  WEWTT YORK 43(o) 2140 40-01-38 269.5 115.89 24.1/80.5  WYIATV SCRANTON *44(-) 1000 41-10-55 337.5 137.19 24.1/80.  LIC PA BLET-830929KG I 509 75-52-17 56.69  LMRS PA - 0 75-09-21 56.69  WYIATV SCRANTON *44(-) 1000 41-10-55 337.5 137.19 24.1/80.  LIC PA BLET-830929KG I 509 75-52-17 56.69 CLEAN MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 CLEAN MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 CLEAN MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 CLEAN MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 CLEAN MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 CLEAN MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 CLEAN MOBILE DOCKET D85-172.  WSKGTV BURLINGTON *46(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5 CLEAN MOBILE DOCKET D85-172.  WSKGTV BURLINGTON *48(-) 2340 40-02-36 0.0 0.00 24.1/80. CLEAN MOBILE DOCKET D85-172.  WGCBTV BURLINGTON *48(-) 2340 40-02-36 0.0 0.00 24.1/80. CLEAN MOBILE DOCKET D85-172.	Call Status	City St	Ch FCC File No. 7	nannel Zone	ERP(kW) HAAT(m)	Latitude Longitude	Bear. True	Dist. (km)	Req. (km)
### PROPOSED LAND MOBILE CHANNEL, DOCKET 85-172  ###################################	WPXNTV LIC	NEW Y	ORK BLCT-860703KH	31(-) I	2820 DA 475	40-42-43 74-00-49	54.1	128.09	24.1/80.5
PHILADELPHIA 42(o) 39-56-58 144.7 12.79 0.1   LMRS PA - 0 75-09-21 0.00 LMRS PA - 0 75-09-21 0.00   PROPOSED LAND MOBILE DOCKET D85-172.  WPMT YORK 43(o) 2140 40-01-38 269.5 115.89 24.1/80.   LIC PA BLCT-840905KI I 415 76-36-00 35.39 CLEAR   WVIATV SCRANTON *44(-) 1000 41-10-55 337.5 137.19 24.1/80.   LIC PA BLET-830929KG I 509 75-52-17 56.69 CLEAR   PHILADELPHIA 46(o) 39-56-58 144.7 12.79 0.   LMRS PA - 0 75-09-21 56.69 LMR   PROPOSED LAND MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 217.   LIC NY BLET-830315KJ I 375 75-56-39 13.89 CLOS   WNJU LINDEN 47(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5   LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEAR   WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80.   CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEAR   WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80.   APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEAR   WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.	LMRS PROPOS	PHILA PA SED LA	ADELPHIA - AND MOBILE CHAI	32(o) NNEL, I	0 DOCKET 85	39-56-58 75-09-21 -172	144.7	12.79	0.0 LMRS
WPMT YORK 43(o) 2140 40-01-38 269.5 115.89 24.1/80.  LIC PA BLCT-840905KI I 415 76-36-00 35.39 CLEAR  WVIATV SCRANTON *44(-) 1000 41-10-55 337.5 137.19 24.1/80.  LIC PA BLET-830929KG I 509 75-52-17 56.69 CLEAR  PHILADELPHIA 46(o) 39-56-58 144.7 12.79 0.  LMRS PA - 0 75-09-21 56.69 LMR  PROPOSED LAND MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 217.  LIC NY BLET-830315KJ I 375 75-56-39 13.89 CLOS  WNJU LINDEN 47(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5  LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEAR  WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80.  CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEAR  WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80.  APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEAR  WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.	WLVTTV LIC	ALLEN PA	TOWN BLET-429	*39(o) I	575 302	40-33-58 75-26-06	344.4	60.32 <b>-20.18</b>	24.1/80.5 SHORT
LIC PA BLCT-840905KI I 415 76-36-00 35.39 CLEAN WILLIAM SCRANTON *44(-) 1000 41-10-55 337.5 137.19 24.1/80. LIC PA BLET-830929KG I 509 75-52-17 56.69 CLEAN PHILADELPHIA 46(0) 39-56-58 144.7 12.79 0. LMRS PA - 0 75-09-21 56.69 LMR PROPOSED LAND MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 217. LIC NY BLET-830315KJ I 375 75-56-39 13.89 CLOS WNJU LINDEN 47(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5 LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEAN WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80. CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEAN WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80. APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEAN WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.	LMRS PROPO	PHILA PA SED LA	ADELPHIA - AND MOBILE DOC:	42(0) KET D8	0 5-172.	39-56-58 75-09-21	144.7	12.79	0.0 LMRS
LIC PA BLET-830929KG I 509 75-52-17 56.69 CLEAR  PHILADELPHIA 46(o) 39-56-58 144.7 12.79 0.  LMRS PA - 0 75-09-21 56.69 LMR  PROPOSED LAND MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 217.  LIC NY BLET-830315KJ I 375 75-56-39 13.89 CLOS  WNJU LINDEN 47(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5  LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEAR  WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80.  CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEAR  WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80.  APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEAR  WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.	WPMT LIC	YORK PA	BLCT-840905KI	43(o) I	2140 415	40-01-38 76-36-00	269.5	115.89 35.39	24.1/80.5 CLEAR
LMRS PA - 0 75-09-21 56.69 LMR PROPOSED LAND MOBILE DOCKET D85-172.  WSKGTV BINGHAMTON *46(+) 603 42-03-22 345.5 231.19 217. LIC NY BLET-830315KJ I 375 75-56-39 13.89 CLOS  WNJU LINDEN 47(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5 LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEA  WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80. CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEA  WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80. APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEA	WVIATV LIC	SCRAI PA	NTON BLET-830929KG	*44(-)	1000 509	41-10-55 75-52-17	337.5	137.19 56.69	24.1/80.5 CLEAR
LIC NY BLET-830315KJ I 375 75-56-39 13.89 CLOS  WNJU LINDEN 47(+) 4570 DA 40-42-43 54.1 128.09 9.7/88.5  LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEA  WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80.  CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEA  WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80.  APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEA  WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.	LMRS	PA	_		O	39-56-58 75-09-21	144.7	12.79 56.69	0.0 LMRS
LIC NJ BLCT-800423KE I 460 74-00-49 39.59 CLEA  WGTW BURLINGTON 48(-) 2340 40-02-36 0.0 0.00 24.1/80.  CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEA  WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80.  APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEA  WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.									
CP NJ BPCT-840104KL I 335 75-14-33 24.10 CLEA  WGTW BURLINGTON 48(-) 5000 40-02-49 55.8 0.73 24.1/80.  APP NJ BPCT-950706KF I 364 75-14-08 23.37 CLEA  WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.									9.7/88.5 CLEAR
APP NJ BPCT~950706KF I 364 75-14-08 23.37 CLEA WGCBTV RED LION 49(+) 617 39-54-18 262.8 115.58 24.1/80.									
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## DTV to NTSC Separation Study - MSTV Allotment Table

Job Title :WGTW Separation Buffer 32 km
Zone : 2 FCC TV DB Date : 12/05/97
Channel 46 (662-668 MHz) Coordinates : 40-02-36 75-14-33

Call Status	City Character C				Req. (km)
WNJN LIC	MONTCLAIR 7 NJ BLET-860805KG		2090 2 <b>4</b> 3	40-51-53 43.6 74-12-03	 24.1/80.5 CLEAR
WWACTV APP	ATLANTIC CITY NJ BPCT-960508KH		5000 DA 132	39-33-19 141.9 74-44-47	24.1/80.5 SHORT
WWACTV LIC	ATLANTIC CITY NJ BLCT-880315KI		12.3 DA 85	39-22-51 137.2 74-27-03	24.1/80.5 CLEAR
WBPHTV CP	BETHLEHEM PA BPCT-960131KF		2950 DA 284	40-33-54 343.9 75-26-26	24.1/80.5 SHORT
WBPHTV LIC	BETHLEHEM PA BLCT-960129KF	• ,	12.0 225	40-33-54 343.9 75-26-27	24.1/80.5 SHORT
WTGITV LIC	WILMINGTON DE BLCT-860717KH		3020 292	39-41-43 187.1 75-17-55	24.1/80.5 <b>SHORT</b>

<sup>\*\*</sup> End of TV Separation Study for Channel 46 \*\*

#### DTV to DTV Separation Study - MSTV Allotment Table

 Job Title :WGTW
 Separation Buffer 32 km

 Zone : 2
 MSTV DB Date: 12-01-97

 Channel 46 (662-668 MHz)
 Coordinates : 40-02-36 75-14-33

Call Status	City St FCC File No		, ,	Latitude Longitude		Dist. (km)	Req. (km)
DWGTW DTVALT	BURLINGTON NJ	46 I	60.7 339	40-2 -36 75-14-33	0.0	0.00	
DWVVI	MANASSAS	<b>4</b> 6	67.9	38-47-16	232.8	227.50	196.3
DTVALT	VA	I	170	77-19-49		31.20	CLEAR
DWGCB	RED LION	47	50.0	39-54-18	262.8	115.57	32.2/88.5
DTVALT	PA	I	180	76-35-0		27.07	CLEAR

<sup>\*\*</sup> End of DTV Separation Study for Channel 46 \*\*